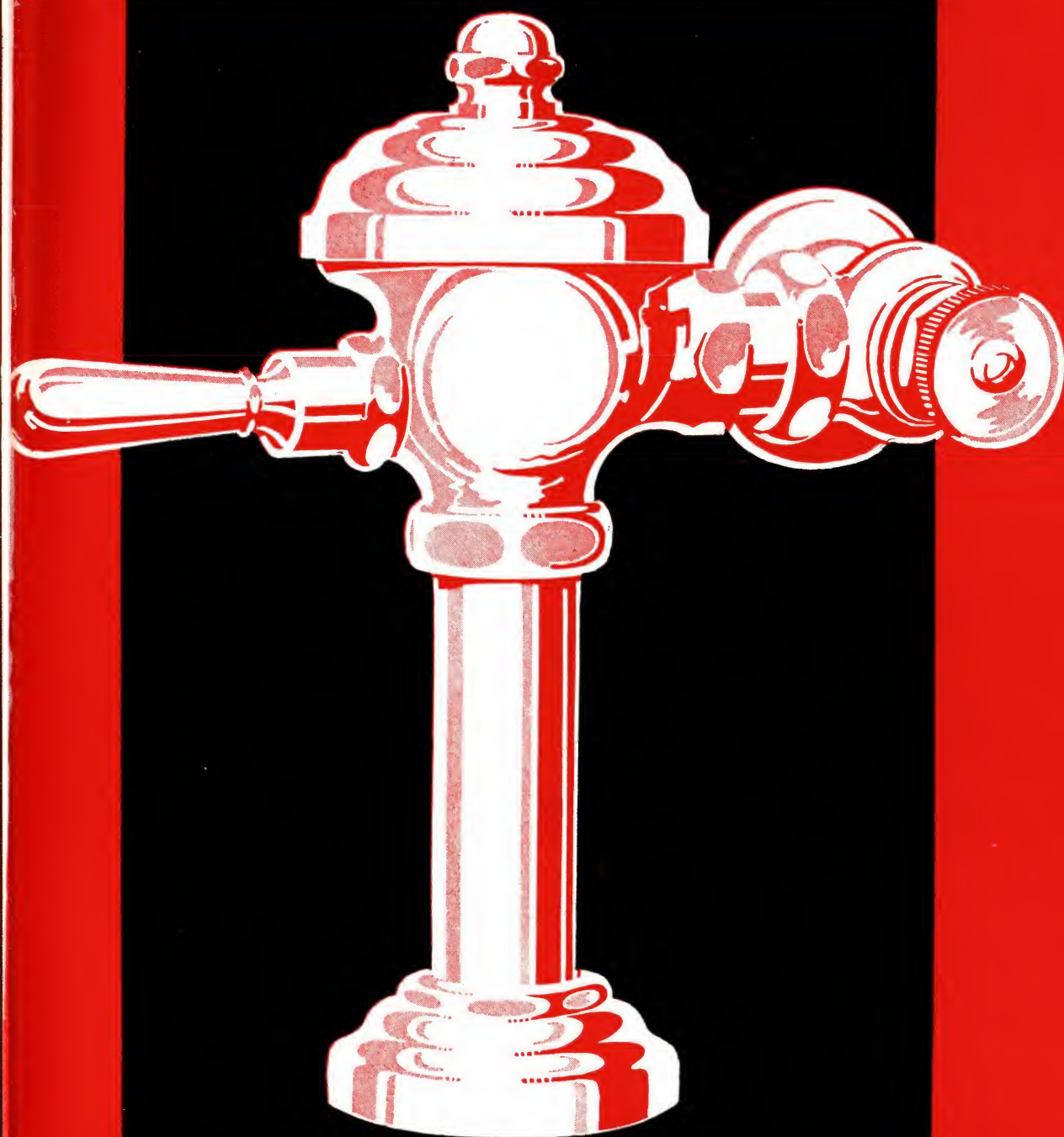




Watrous

FLUSH VALVES

made solely by **THE IMPERIAL BRASS MFG. CO. CHICAGO**

THE IMPERIAL BRASS MFG. CO.

1200 WEST HARRISON ST., CHICAGO, ILLINOIS

Foreword

● Experience, approximating a half a century in the manufacture of brass and bronze devices of all kinds, contributes to the outstanding perfection of the Watrous Sanitary Appliances.

● Entering the field of sanitary engineering supported by this experience, backed with ample financial resources and unexcelled manufacturing facilities, our engineers and designers were able to create sanitary appliances far beyond the accepted standards of the time.

● In the spirit of progression and improvement we have steadfastly kept abreast of the increasingly exacting demands of this important field of sanitation as evidenced by the sanitary appliances illustrated in the following pages.

● With beauty in design, efficiency in operation, and adaptations for every requirement, Watrous Sanitary Appliances are universally accepted for the most exacting service and can be used on Plumbing Fixtures of any manufacture.

Architectural Service

Imperial engineers work in close cooperation with architects, jobbers and plumbers in the interest of the builder, the architect and the manufacturer.

Architects are invited to call on us for helpful suggestions on any unusual problems. If more complete details are required, please write our main office.

Imperial representatives are located in the principal cities. See back cover.

A Few Typical Watrous Installations

Watrous Flush Valves have been installed in many of the best known apartment, hotel and office buildings all over the world. A partial list of installations is listed below.

FISHER BUILDING,
Detroit, Mich.

LA SALLE-WACKER BLDG.,
Chicago, Ill.

MORRISON HOTEL,
Chicago, Ill.

CHICAGO DAILY NEWS BLDG.,
Chicago, Ill.

**SOUTHWESTERN BELL TELEPHONE
BLDG.,**
St. Louis, Mo.

PARK PLAZA APT. HOTEL,
St. Louis, Mo.

HEYBURN BLDG.,
Louisville, Ky.

ELKS' CLUB BUILDING,
Memphis, Tenn.

BELL TELEPHONE BLDG.,
Dallas, Texas

MARK HOPKINS HOTEL,
San Francisco, Calif.

EASTERN-COLUMBIA BLDG.,
Los Angeles, Calif.

THE TEXAS COMPANY BLDG.,
Los Angeles, Calif.

HOTEL BANKHEAD,
Birmingham, Ala.

**AMERICAN INSURANCE UNION
TOWER,**
Columbus, Ohio

WILLIAM TAYLOR HOTEL,
San Francisco, Calif.

MASONIC TEMPLE,
St. Louis, Mo.

STEBEN CLUB,
Chicago, Ill.

MISSOURI PACIFIC BLDG.,
St. Louis, Mo.

GENESEE VALLEY TRUST BLDG.,
Rochester, N. Y.

PLYMOUTH HOTEL,
New York, N. Y.

STATE HOSPITAL,
Coxsackie, N. Y.

HOTEL, SANITARIUM & DRINK HALL,
Saratoga Springs, N. Y.

STATE SCHOOL,
Albion, N. Y.

ROCKLAND STATE HOSPITAL,
Orangeburg, N. Y.

STATE HOSPITAL,
Gowanda, N. Y.

STATE PRISON,
Attica, N. Y.

AMBASSADOR BUILDING,
St. Louis, Mo.

LA SALLE APARTMENTS,
Birmingham, Ala.

THE ARENA,
St. Louis, Mo.

THE CHICAGO STADIUM,
Chicago, Ill.

BENDIX BUILDING,
Los Angeles, Calif.

SIANI TEMPLE,
Los Angeles, Calif.

1700 WALNUT STREET BLDG.,
Philadelphia, Penna.

BARLUM TOWER,
Detroit, Mich.

WESTCHESTER APARTMENTS,
Washington, D. C.

ALBANY COUNTY JAIL,
Albany, N. Y.

CONTINENTAL LIFE INSURANCE CO.,
St. Louis, Mo.

TATTNALL COUNTY JAIL,
Reidsville, Ga.

GENERAL MOTORS PLANT,
Los Angeles, Calif.

TEXTILE CENTER BUILDING,
Seattle, Wash.

DYAS BUILDING,
Hollywood, Calif.

BISMARCK HOTEL,
Chicago, Ill.

LOYOLA UNIVERSITY BLDG.,
Chicago, Ill.

WYANDOTTE SCHOOL,
Kansas City, Kan.

BUS TERMINAL AND HOTEL,
Kansas City, Mo.

Watrous FLUSH VALVES

MAJESTIC FLUSH VALVE

A valve of the time-proven diaphragm type, for use on all types of fixtures and in all standard combinations. Noted for water economy, simplified installation and consistent efficiency because of special engineering features: (1) **SIMPLICITY OF REGULATION**—Valve is easily adjusted to the minimum amount of water necessary for the fixture with which it is used by a **SLIGHT TURN OF A SCREW**. No need to shut off water or take valve apart. (2) **SELF-CLEANSING BY-PASS**. By-pass is thoroughly cleansed at each operation of the valve. This assures against lengthening of the flushing time. (3) **FULL WATERWAY**. A diaphragm area 25% greater than the average enables this valve to operate successfully even on low pressures. Delivers all available water and has "punch" necessary to cleanse fixture thoroughly. (4) **EASE OF OPERATION**. A slight pressure on the handle in any direction insures a quick, thorough flushing. . . . Body is of high grade bronze heavily nickel or chromium plated.



IMPERIAL FLUSH VALVE

A valve of the piston type carefully designed and ruggedly built to provide lasting, reliable service. Available for all types of fixtures and in all standard combinations. Offers same **SIMPLICITY OF REGULATION**, same **SELF-CLEANSING BY-PASS** and same **EASE OF OPERATION** as described for MAJESTIC VALVE. A special feature of this valve is the full travel of the piston. This assures a full waterway which will give the proper rate of flow to flush thoroughly the most exacting fixtures and is particularly desirable on low pressures. The full travel also guards against scoring of cylinder walls and cup leathers through scaling, reducing service requirements to a minimum. As standard equipment this valve contains the **NON-HOLD-OPEN FEATURE** which assures that only a single flush takes place regardless of how long the handle is held—a decided factor in saving water. Body is of high grade bronze, nickel or chromium plated.



JEWEL FLUSH VALVE

This valve is also of the piston type and is designed to combine efficient, enduring service with maximum economy. Available in all standard combinations for any plumbing fixture requiring flushing service.

Valve can be easily adjusted by means of a turn of a screw to provide the proper length of flush for fixtures of any type. Has double by-pass channel which is cleansed every time the valve is flushed, insuring against lengthening of flush. Features full travel of piston similar to that described above for Imperial valve.

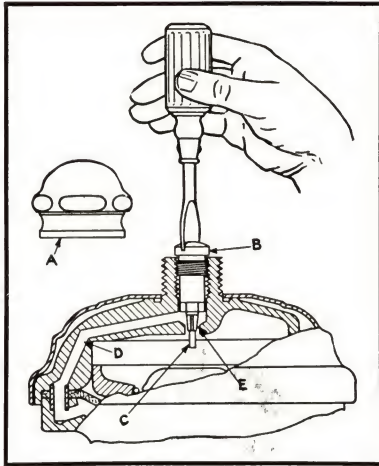
Valve will provide a uniform delivery of water from the highest to the lowest pressures—an important protection against water waste.

Constructed of high grade bronze heavily nickel or chromium plated.



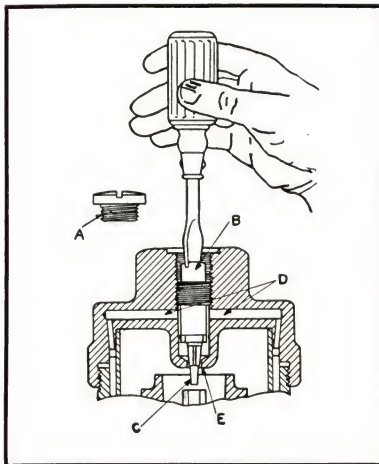
REGULATION OF **Watrous** FLUSH VALVES

MAJESTIC



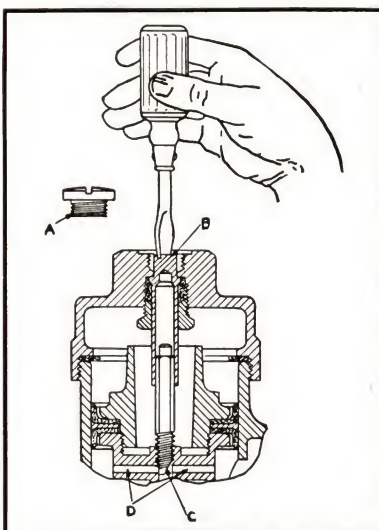
This sectional view clearly illustrates the scientific method of regulation and the self-cleansing by-pass features of the MAJESTIC Flush Valve. Note that adjustment of the length of flush is accomplished easily by the turn of a screw without shutting off the water or taking the valve apart. METHOD OF ADJUSTMENT is to remove cap nut "A" exposing adjusting screw "B." Screwing "B" in or out reduces or increases the opening between the plunger "C" and the seat "E," making possible adjustment for the correct flush of the particular fixture used. SELF-CLEANSING FEATURE—The plunger "C" is raised up off of seat "E" by the diaphragm operating unit each time the valve is flushed, making the seat self-cleansing. Also note the port "D" is many times larger than the average by-pass port, assuring positive protection against clogging.

IMPERIAL



The view at the left illustrates the ease of adjustment and the self-cleansing features of the IMPERIAL Flush Valve and shows how this valve assures water economy with any fixture. The length of flush can be easily regulated for any type of fixture without shutting off the water or taking the valve apart. METHOD OF ADJUSTMENT is to remove cap nut "A" exposing adjusting screw "B" which, when screwed in or out reduces or increases the opening between plunger "C" and the seat "E," thus accurately controlling the length of flush for maximum efficiency on the particular fixture used. SELF-CLEANSING FEATURE — The plunger "C" is raised up off of seat "E" by the piston unit each time the valve is flushed, thus making the seat self-cleansing. Note also that ports "D" are many times larger than the average by-pass port, thus protecting against clogging.

JEWEL



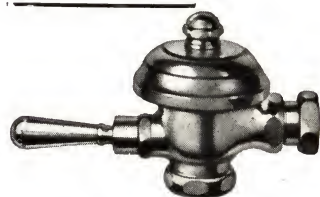
The sectional view illustrates the scientific method of regulation and the double by-pass channel of the JEWEL valve. Note that the length of flush can be accurately adjusted for any type of fixture by removing the cap nut "A" and turning the adjusting screw "B."

Screwing "B" in lengthens the flush, while screwing it out shortens the flush. This adjustment permits the valve to be used on any type of fixture, providing quick regulation to the minimum requirements of the fixture.

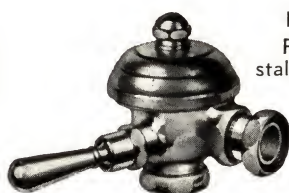
The double by-pass channel "D" is of good size and is thoroughly cleansed by the water stream each time the valve is flushed, thus insuring against clogging by scale or foreign matter in the water.

TYPE VARIATIONS OF **Watrous** FLUSH VALVES

MAJESTIC



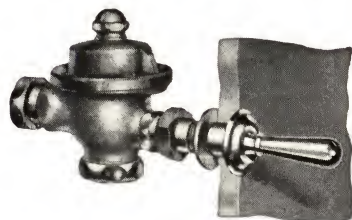
No. M-525
For exposed installation with inlet opposite handle



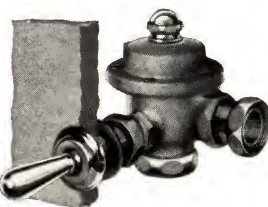
No. M-526
For exposed installation with inlet to right of handle



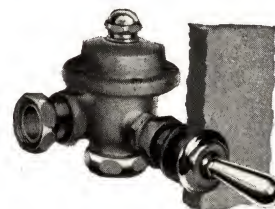
No. M-527
For exposed installation with inlet to left of handle



No. M-528 for concealed installation with inlet opposite handle

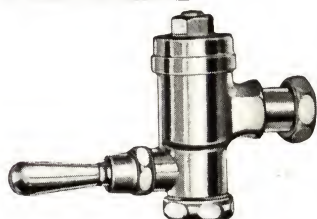


No. M-529 for concealed installation with inlet to right of handle

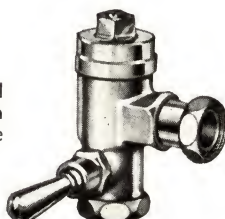


No. M-530 for concealed installation with inlet to left of handle

IMPERIAL



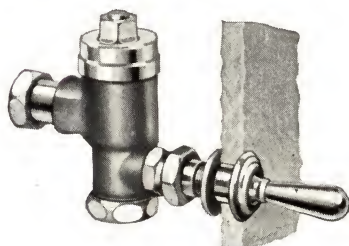
No. M-625
For exposed installation with inlet opposite handle



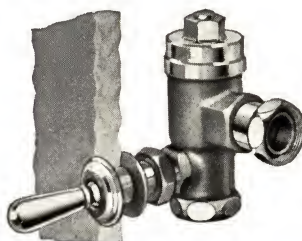
No. M-626
For exposed installation with inlet to right of handle



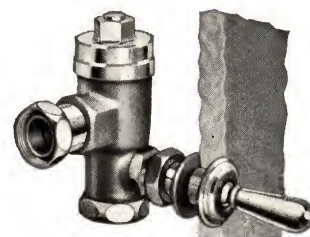
No. M-627
For exposed installation with inlet to left of handle



No. M-628 for concealed installation with inlet opposite handle

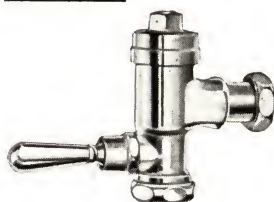


No. M-629 for concealed installation with inlet to right of handle

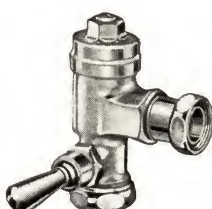


No. M-630 for concealed installation with inlet to left of handle

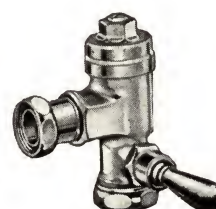
JEWEL



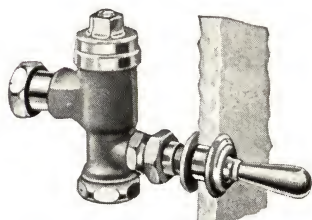
No. M-925
For exposed installation with inlet opposite handle



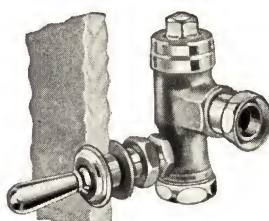
No. M-926
For exposed installation with inlet to right of handle



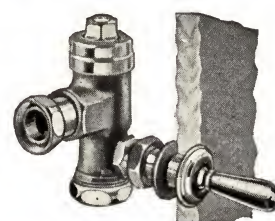
No. M-927
For exposed installation with inlet to left of handle



No. M-928 for concealed installation with inlet opposite handle

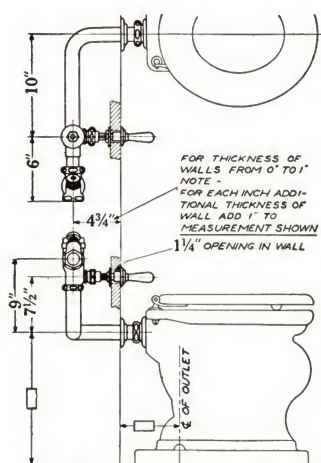


No. M-929 for concealed installation with inlet to right of handle



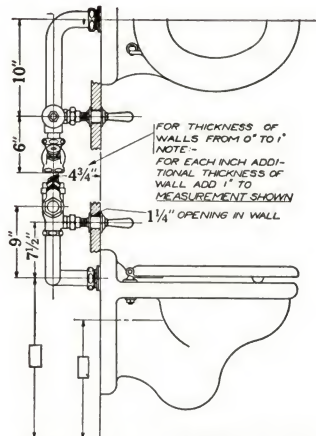
No. M-930 for concealed installation with inlet to left of handle

Watrous FLUSH VALVE COMBINATIONS



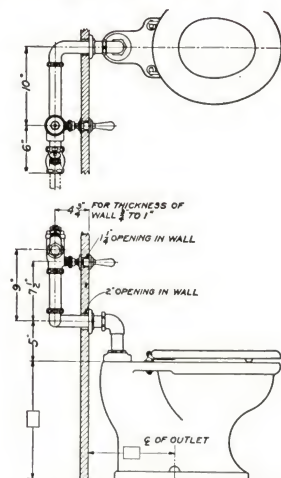
MAJESTIC { Left Inlet No. M-536
Combination { Right Inlet No. M-536 1/2
IMPERIAL { Left Inlet No. M-636
Combination { Right Inlet No. M-636 1/2
JEWEL { Left Inlet No. M-936
Combination { Right Inlet No. M-936 1/2

Above combination consists of: Rough Flush Valve, inlet to left (or to right) of metal handle* (see note), rough 1" wheel handle straight shut-off, double elbow flush connection, wall flange, spud nut and flange, for 1 1/2" rear spud floor bowl.



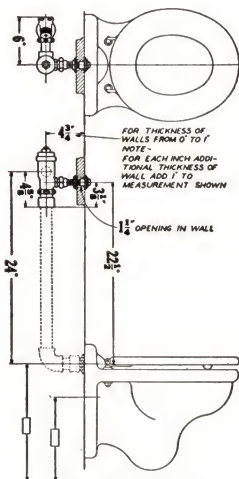
MAJESTIC { Left Inlet No. M-539
Combination { Right Inlet No. M-539 1/2
IMPERIAL { Left Inlet No. M-639
Combination { Right Inlet No. M-639 1/2
JEWEL { Left Inlet No. M-939
Combination { Right Inlet No. M-939 1/2

Above combination consists of: Rough Flush Valve, inlet to left (or to right) of metal handle* (see note), rough 1" wheel handle straight shut-off, double elbow flush connection, spud nut, for 1 1/2" rear spud wall bowl.



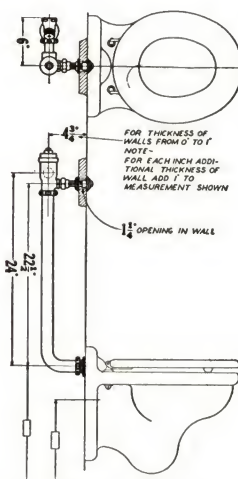
MAJESTIC { Left Inlet No. M-562
Combination { Right Inlet No. M-562 1/2
IMPERIAL { Left Inlet No. M-662
Combination { Right Inlet No. M-662 1/2
JEWEL { Left Inlet No. M-962
Combination { Right Inlet No. M-962 1/2

Above combination consists of: Rough Flush Valve, inlet to left (or to right) of metal handle* (see note), rough 1" wheel handle straight shut-off, wall flange, triple elbow flush connection with exposed portions nickel plated, spud nut and flange, for 1 1/2" top spud bowl.



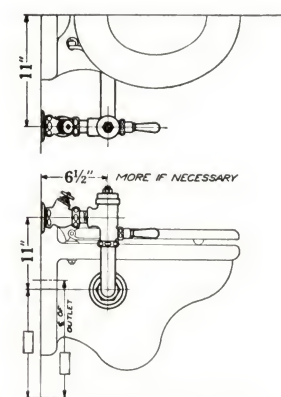
MAJESTIC { Right Inlet No. M-547
Combination { Left Inlet No. M-547 1/2
IMPERIAL { Right Inlet No. M-647
Combination { Left Inlet No. M-647 1/2
JEWEL { Right Inlet No. M-947
Combination { Left Inlet No. M-947 1/2

Above combination consists of: Rough Flush Valve, with inlet to right (or to left) of push button* (see note), rough 1" wheel handle straight shut-off, 1 1/4" female I.P. union outlet (no flush connection). For rear spud wall or floor bowls.



MAJESTIC { Right Inlet No. M-548
Combination { Left Inlet No. M-548 1/2
IMPERIAL { Right Inlet No. M-648
Combination { Left Inlet No. M-648 1/2
JEWEL { Right Inlet No. M-948
Combination { Left Inlet No. M-948 1/2

Above combination consists of: Rough Flush Valve, with inlet to right (or to left) of push button* (see note), rough 1" wheel handle straight shut-off, rough elbow flush connection and spud nut, for 1 1/2" rear spud wall or floor bowl.



MAJESTIC Combination No. M-538
IMPERIAL Combination No. M-638
JEWEL Combination No. M-938

Above combination consists of: Nickel Plated Flush Valve, with inlet opposite metal handle, 1" loose-key straight shut-off, wall flange, elbow flush connection, spud nut and flange, for 1 1/2" side spud wall bowl.

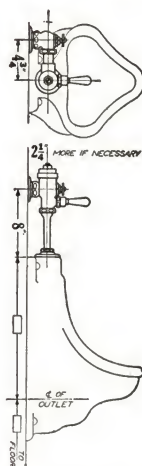
VARIATIONS

W	With Bumper for seat with cover.....	Extra, See Price Sheet
A	With M-22 Twin bar bumper for open front seat less cover.....	Extra, See Price Sheet
T	With M-16 Long wall bumper for closed front seat with or without cover.....	Extra, See Price Sheet
R	With 2"x1 1/2" spud reducer.....	Extra, See Price Sheet
O	Metal handle now standard equipment.....	No Extra
U	With loose key instead of wheel handle shut-off.....	No Extra
S	With 1 1/4" Flush connection instead of 1 1/2".....	No Extra

*NOTE No. 2—For concealed valves: Be sure and state wall thickness.

Measurement from center of spud to center of handle APPROXIMATE. (Detailed print furnished on request.)

Watrous FLUSH VALVE COMBINATIONS

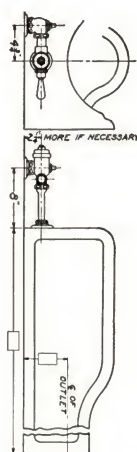


MAJESTIC Combination No. M-542

IMPERIAL Combination No. M-642

JEWEL Combination No. M-942

Above combination consists of: Nickel Plated Flush Valve, with inlet to right of metal handle, $\frac{3}{4}$ " loose-key angle shut-off, wall flange, straight flush connection, spud nut and flange, for $\frac{3}{4}$ " top spud wall hung urinal.

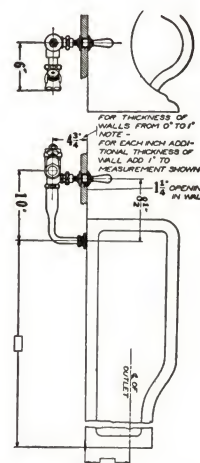


MAJESTIC Combination No. M-549

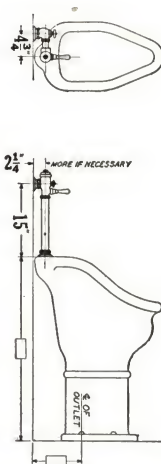
IMPERIAL Combination No. M-649

JEWEL Combination No. M-949

Above combination consists of: Nickel Plated Flush Valve, with inlet opposite metal handle, $\frac{3}{4}$ " loose-key angle shut off, wall flange, straight flush connection, spud nut and flange, for $\frac{3}{4}$ " top stall urinal.

MAJESTIC { Left Inlet No. M-541
Combination { Right Inlet No. M-541 1/2IMPERIAL { Left Inlet No. M-641
Combination { Right Inlet No. M-641 1/2JEWEL { Left Inlet No. M-941
Combination { Right Inlet No. M-941 1/2

Above combination consists of: Rough Flush Valve, with inlet to left (or to right) of metal handle* (see note), rough $\frac{3}{4}$ " wheel handle straight shut-off, elbow flush connection, spud nut, for $\frac{3}{4}$ " rear spud stall urinal.

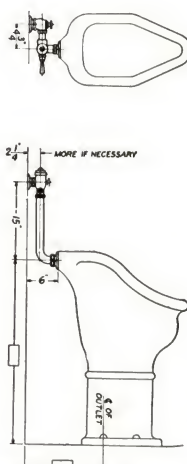


MAJESTIC Combination No. M-543

IMPERIAL Combination No. M-643

JEWEL Combination No. M-943

Above combination consists of: Nickel Plated Flush Valve, with inlet to right of metal handle, 1" loose-key angle shut-off, wall flange, straight flush connection, spud nut and flange, for 1 1/2" top spud pedestal urinal.

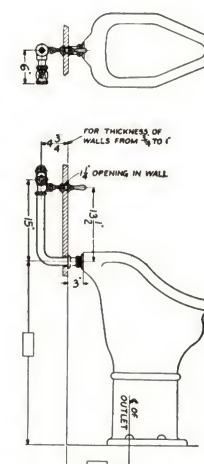


MAJESTIC Combination No. M-559

IMPERIAL Combination No. M-659

JEWEL Combination No. M-959

Above combination consists of: Nickel Plated Flush Valve, with inlet opposite metal handle, 1" loose-key angle shut-off, wall flange, elbow flush connection, spud nut and flange, for 1 1/2" rear spud pedestal urinal.

MAJESTIC { Left Inlet No. M-560
Combination { Right Inlet No. M-560 1/2IMPERIAL { Left Inlet No. M-660
Combination { Right Inlet No. M-660 1/2JEWEL { Left Inlet No. M-960
Combination { Right Inlet No. M-960 1/2

Above combination consists of: Rough Flush Valve, with inlet to left (or to right) of metal handle* (see note) rough 1" wheel handle straight shut-off, elbow flush connection, wall flange, spud nut and flange, for 1 1/2" rear spud pedestal urinal.

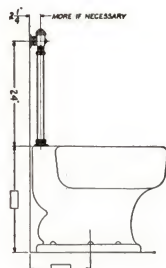
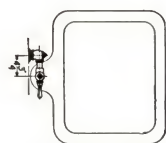
VARIATIONS

W	With solid metal push button instead of metal lever handle.....	No Extra
A	With $\frac{1}{2}$ " Shut-off instead of $\frac{3}{4}$ ".....	No Extra
T	With 1" Flush connection instead of $\frac{3}{4}$ ".....	No Extra
R	With $\frac{1}{2}$ " Flush connection instead of $\frac{3}{4}$ ".....	No Extra
O	Metal handle now standard equipment.....	No Extra
U	With loose key instead of wheel handle shut-off.....	No Extra
S	With $\frac{1}{4}$ " Flush connection instead of $\frac{1}{2}$ ".....	No Extra

*NOTE No. 2—For concealed valves: Be sure and state wall thickness.

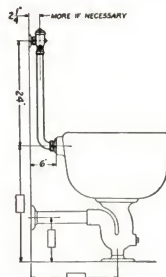
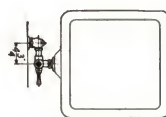
Measurement from center of spud to center of handle APPROXIMATE. (Detailed print furnished on request.)

Watrous FLUSH VALVE COMBINATIONS



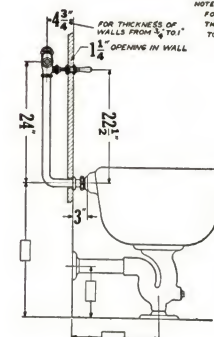
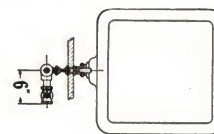
MAJESTIC Combination No. M-555
IMPERIAL Combination No. M-655
JEWEL Combination No. M-955

Above combination consists of: Nickel Plated Flush Valve, with inlet opposite metal handle, 1" loose-key angle shut-off, wall flange, straight flush connection, spud nut and flange, for 1½" top spud slop sink.



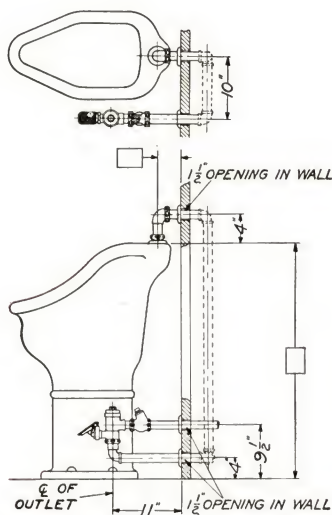
MAJESTIC Combination No. M-558
IMPERIAL Combination No. M-658
JEWEL Combination No. M-958

Above combination consists of: Nickel Plated Flush Valve, with inlet opposite metal handle, 1" loose-key angle shut-off, wall flange, elbow flush connection, spud nut and flange, for 1½" rear spud slop sink.



MAJESTIC { Left Inlet No. M-545
 Combination { Right Inlet No. M-545½
IMPERIAL { Left Inlet No. M-645
 Combination { Right Inlet No. M-645½
JEWEL { Left Inlet No. M-945
 Combination { Right Inlet No. M-945½

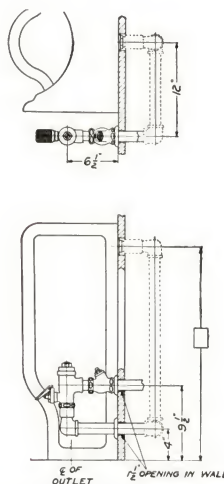
Above combination consists of: Rough Flush Valve, inlet to left (or to right) of metal handle* (see note), rough 1" wheel handle straight shut-off, elbow flush connection, wall flange, spud nut and flange for 1½" rear spud slop sink.



MAJESTIC Combination No. M-576
IMPERIAL Combination No. M-676

Above combination consists of: Nickel Plated Foot Pedal Flush Valve, with inlet opposite pedal, 1" loose-key straight shut-off, female I.P. union outlet, wall flanges, elbow flush connection from wall to spud, iron pipe casing from valve to wall, spud nut and flange, for 1½" top spud pedestal urinal.

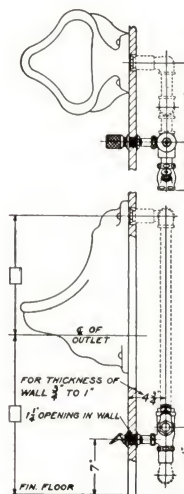
NOTE: No concealed piping furnished.



MAJESTIC Combination No. M-577
MAJESTIC Combination No. M-677

Above combination consists of: Nickel Plated Foot Pedal Flush Valve, with inlet opposite pedal, ¾" loose-key straight shut-off, female I.P. union outlet, wall flanges, iron pipe casing from valve to wall, for ¾" rear spud stall urinal.

NOTE: No concealed piping furnished.



MAJESTIC Combination No. M-578
IMPERIAL Combination No. M-678

Above combination consists of: Rough Foot Pedal Flush Valve, with inlet to right of pedal (see note), rough ¾" wheel handle straight (or angle if required) shut-off, female I.P. union outlet, (no flush connection furnished) for ¾" rear spud wall hung urinal.

NOTE: No concealed piping furnished.

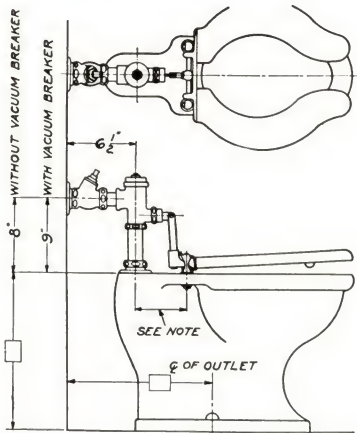
VARIATIONS

W	With solid metal push button instead of metal lever handle.....	No Extra
A	With ½" Shut-off instead of ¾".....	No Extra
T	With 1" Flush connection instead of ¾".....	No Extra
R	With ½" Flush connection instead of ¾".....	No Extra
O	Metal handle now standard equipment.....	No Extra
U	With loose key instead of wheel handle shut-off.....	No Extra
S	With 1¼" Flush connection instead of 1½".....	No Extra

*NOTE No. 2—For concealed valves: Be sure and state wall thickness.

Measurement from center of spud to center of handle APPROXIMATE. (Detailed print furnished on request.)

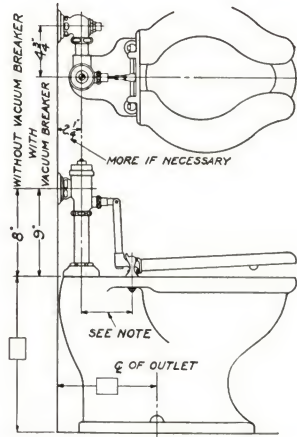
Watrous SEAT ACTION FLUSH VALVE COMBINATIONS



MAJESTIC Combination No. M-581
IMPERIAL Combination No. M-681

Above combination consists of: Nickel Plated Seat Operated Flush Valve, with inlet to rear, 1" loose-key straight shut-off, wall flange, spud nut and flange, straight flush connection for 1½" top spud bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

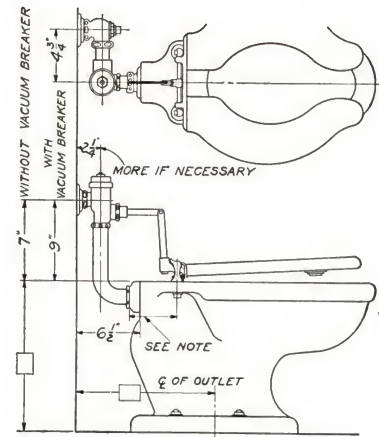
NOTE: Be sure to specify distance from center of spud to center of post holes.



MAJESTIC Combination No. M-582
IMPERIAL Combination No. M-682

Above combination consists of: Nickel Plated Seat Operated Flush Valve, with inlet to right, 1" loose-key angle shut-off, wall flange, spud nut and flange, straight flush connection for 1½" top spud bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

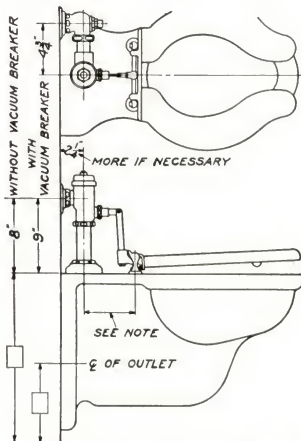
NOTE: Be sure to specify distance from center of spud to center of post holes.



MAJESTIC Combination No. M-583
IMPERIAL Combination No. M-683

Above combination consists of: Nickel Plated Seat Operated Flush Valve, with inlet to right, 1" loose-key angle shut-off, wall flange, spud nut and flange, elbow flush connection for 1½" rear spud bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

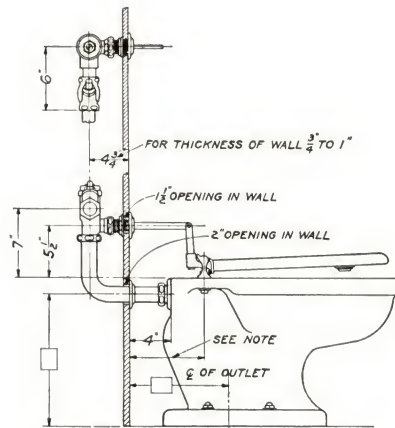
NOTE: Be sure to specify distance from face of spud to center of post holes.



MAJESTIC Combination No. M-587
IMPERIAL Combination No. M-687

Above combination consists of: Nickel Plated Seat Operated Flush Valve, with inlet to right, 1" loose-key angle shut-off, wall flange, spud nut and flange, straight flush connection for 1½" top spud wall bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

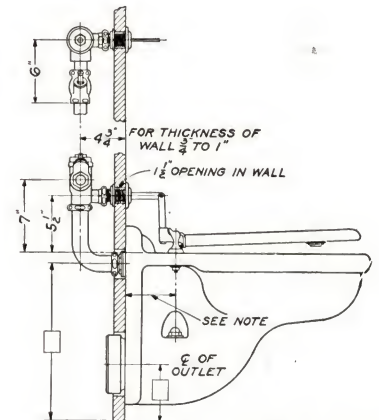
NOTE: Be sure to specify distance from center of spud to center of post holes.



MAJESTIC { Left Inlet No. M-586
Combination { Right Inlet No. M-586½
IMPERIAL { Left Inlet No. M-686
Combination { Right Inlet No. M-686½

Above combination consists of: Rough Flush Valve, with inlet to left (or to right), (see note No. 2), rough 1" wheel handle straight shut-off, wall flange, spud nut and flange, elbow flush connection for 1½" rear spud floor bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

NOTE: Be sure to specify distance from finished wall to center of post holes.



MAJESTIC { Left Inlet No. M-589
Combination { Right Inlet No. M-589½
IMPERIAL { Left Inlet No. M-689
Combination { Right Inlet No. M-689½

Above combination consists of: Rough Flush Valve, with inlet to left (or to right), (see note No. 2), rough 1" wheel handle straight shut-off, spud nut, elbow flush connection for 1½" rear spud wall bowl, adjustable bar check hinge and open front and back composition seat for regular round front bowl.

NOTE: Be sure to specify distance from finished wall to center of post holes.

VARIATIONS

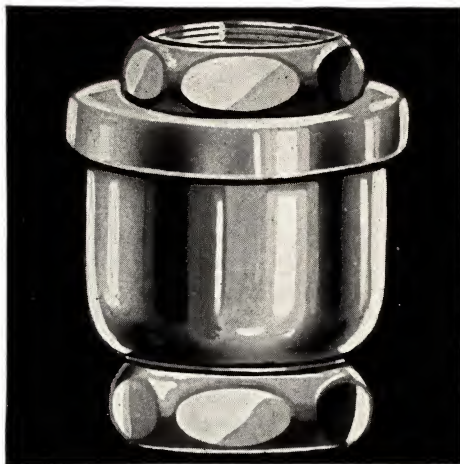
W	With open front and back seat for extended lip bowl.....	No Extra
A	With open front and back seat for elongated bowl.....	No Extra
T	With open front and closed back seat for regular round bowl.....	No Extra
R	With 2" x 1½" spud reducer.....	Extra, See Price Sheet
O	With 2" x 1¼" spud reducer.....	Extra, See Price Sheet
U	With loose-key instead of wheel handle shut-off.....	No Extra
S	With 1¼" flush connection instead of 1½".....	No Extra

***NOTE No. 2—**For concealed valves: Be sure and state wall thickness.

Measurement from center of spud to center of handle APPROXIMATE. (Detailed print furnished on request.)

IMPERIAL VACUUM BREAKER

Provides Positive Protection Against Back-Syphonage



Imperial M-1111 Vacuum Breaker



The above illustration shows the Imperial M-1111 Vacuum Breaker installed with the Watrous Imperial Flush Valve. This vacuum breaker is equally adaptable for installation with the Watrous Majestic and Watrous Jewel Flush Valves, as well as all other makes of flush valves—on old or new installations.

The Imperial Vacuum Breaker, illustrated at left, incorporates features which makes it outstanding in prevention of back-syphonage. These features include:

FULL AREA

The Imperial Vacuum Breaker provides a full 1 in. atmospheric opening into the flush connection between the flush valve and the fixture, definitely preventing the forming of any vacuum, the cause of back-syphonage.

DEPENDABLE

Construction throughout of the highest grade materials, brass and bronze, with vital parts of monel metal, makes breaker immune to corrosion or sticking and assures operation each time the valve is actuated. Atmospheric openings are specially protected against stoppage or malicious tampering.

SILENT

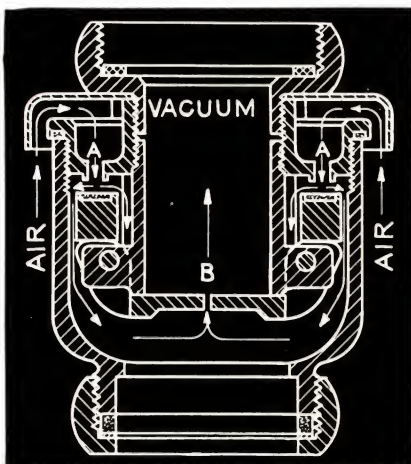
The atmospheric openings are closed each time the valve flushes, thus assuring against any leakage or spitting and eliminating all objectionable water and air noises.

UNRESTRICTED

With a large, full opening, the Imperial Vacuum Breaker assures unrestricted flow of water when the valve is flushing, providing a full volume of water to the fixture even under low water pressure conditions.

PLEASING DESIGN

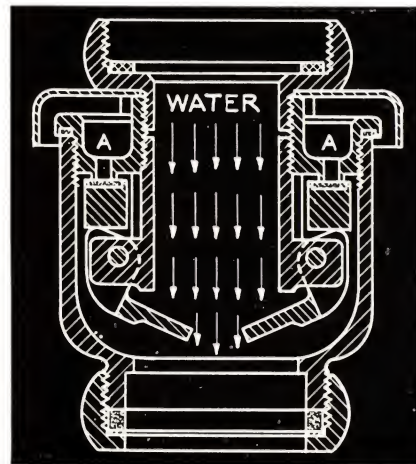
The Imperial Vacuum Breaker, attached to the outlet of the flush valve, forms a compact and symmetrical design eliminating the usual protrusions or bulges of the average type of vacuum breaker and harmonizing with the combination as a whole.



The sectional views to the left and right show the operation of the Imperial M-1111 Vacuum Breaker.

The illustration to the left shows it in the protective position, with the flush valve closed, allowing free entry of the air through the atmospheric openings.

The illustration to the right shows it in the operating or flushing position, with the atmospheric openings closed and water flowing through to the fixture.



Watrous CLOSET SEAT BUMPERS

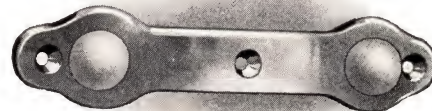
Furnished in Nickel Plated or Chromium Plated Finish



No. M-13 Seat Bumper
For attaching to top of
MAJESTIC Flush Valve.



No. M-15 Seat Bumper (Short)
Length 1 1/4". Toggle Bolt can be
furnished instead of Wood Screw
without additional cost.



No. M-22 Twin Bar Bumper
Center to center of bumpers, 5 1/4".



No. M-243 Seat Bumper
For attaching to top of IM-
PERIAL and JEWEL Flush
Valves.



No. M-38 Seat Bumper
For attaching to Angle Shut-off.
Hole in rubber permits use of Loose
Key without removing bumper.



No. M-16 Seat Bumper (Long)
Length, 4". Toggle Bolt can be furnished
instead of Wood Screw without additional
cost.

SYPHON PREVENTING SHUT-OFFS

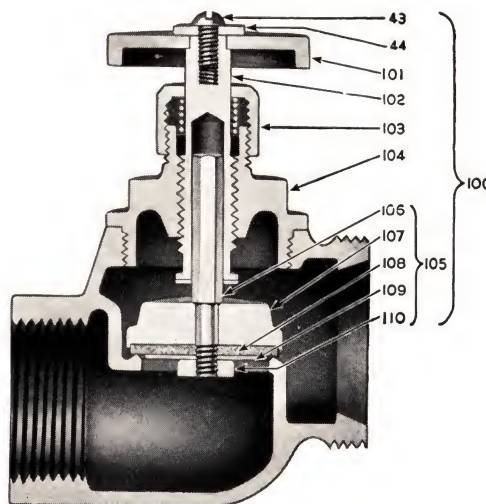
For Majestic, Imperial and Jewel Flush Valves

These Shut-offs are so arranged that they remain in a closed position at all times except when the flush valve is operating. If a vacuum occurs in the supply line the Shut-off does not permit water to be drawn through the valve from the bowl or other fixture and remains in a closed position until pressure is restored in the line and the flush valve is operated again.

Special care should be taken in ordering the correct angle type Shut-offs, as the three different types are not interchangeable. From the illustrations at the bottom of the page it can be noted that the three angle types are for installation as follows: M-616 for installation where supply is to left of flush valve; M-617 for installation where supply is to right of flush valve; M-619 for installation where supply is from floor. The straight type is installed in the regular way.

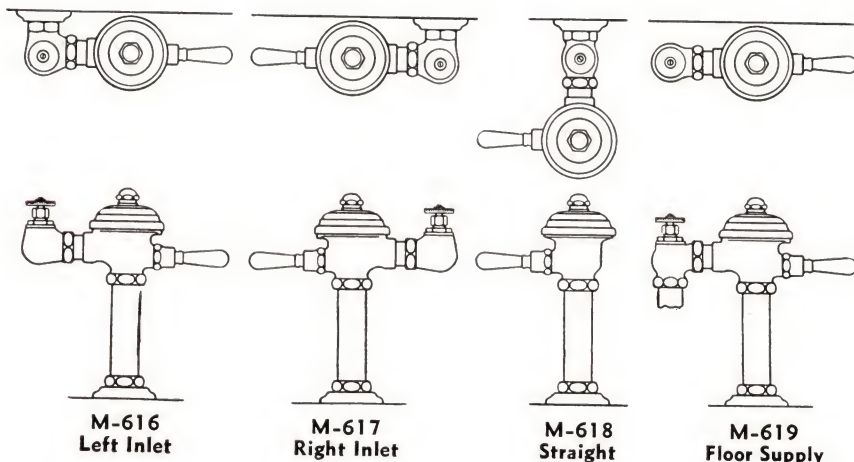
Care should also be taken when installing this type of Shut-off so that the operating mechanism is in an upright position to assure proper operation of unit.

They are furnished in the following variations: 1" Iron Pipe Size Inlet; Rough, Nickel Plate or Chromium Plate Finish; Wheel Handle or Loose Key.



Repair part numbers for M-616, M-617, M-618 and M-619 Watrous Syphon Preventor Shut-Off Valves.

No.	Description	List
43	Handle Screw.....	\$0.04
44	Brass Handle Washer.....	.04
100	Shut-Off Stem Assembly Complete	2.40
101	Wheel Handle.....	.20
102	Shut-Off Stem Only.....	.40
103	Packing Nut.....	.18
104	Bonnet	.50
105	Seat Assembly.....	.52
106	Stem	.20
107	Weight	.20
108	Seat Washer.....	.04
109	Brass Washer.....	.04
110	Nut	.04



M-616
Left Inlet

M-617
Right Inlet

M-618
Straight

M-619
Floor Supply

THE IMPERIAL BRASS MFG. CO.

1200 W. Harrison Street
CHICAGO, ILLINOIS

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